

## EAST Search History

| Ref # | Hits  | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|--|------------------|---------|------------------|
| S1    | 38    | (US-20050200837-\$ or<br>US-20020125374-\$ or<br>US-20060058946-\$ or<br>US-20050202886-\$ or<br>US-20030204962-\$ or<br>US-20060044275-\$ or<br>US-20040161141-\$).did. or<br>(US-5313230-\$ or US-6732440-\$ or<br>US-4645080-\$ or US-6498643-\$ or<br>US-6289263-\$ or US-5111926-\$ or<br>US-6265234-\$ or US-5190137-\$ or<br>US-4831924-\$ or US-5405411-\$ or<br>US-5416392-\$ or US-5422988-\$ or<br>US-5517430-\$ or US-5632205-\$ or<br>US-5855270-\$ or US-5319577-\$ or<br>US-7108263-\$ or US-4575695-\$ or<br>US-3974577-\$ or US-3937078-\$ or<br>US-4249738-\$).did. or<br>(WO-200009271-\$ or EP-454267-\$<br>or US-6630998-\$ or GB-2298155-\$<br>or US-20050202886-\$ or<br>RO-84743-\$ or SU-534341-\$ or<br>SU-294391-\$ or US-5319577-\$ or<br>DE-3519318-\$).did. | US-PGPUB;<br>USPAT;<br>DERWENT   | OR               | ON      | 2006/10/24 10:49 |
| S2    | 27846 | orient\$3 and sphere  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/10/24 10:52 |
| S3    | 74    | orient\$3 adj sphere  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/10/24 10:53 |
| S4    | 189   | orient\$3 adj spher\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/10/24 10:53 |

## EAST Search History

|     |        |                        |  |    |    |                  |
|-----|--------|------------------------|--|----|----|------------------|
| S5  | 71576  | orient\$3 and spher\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:53 |
| S6  | 481    | orient\$5 adj spher\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:55 |
| S7  | 107030 | orient\$5 and spher\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:54 |
| S10 | 12     | "6630998"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:54 |
| S12 | 12     | "5611723"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:54 |
| S14 | 2      | "20050202886"          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:16 |
| S15 | 189    | orient\$3 near sphere  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:55 |

## EAST Search History

|     |       |  |  |    |    |                  |
|-----|-------|--|--|----|----|------------------|
| S16 | 732   | orient\$5 near spher\$4                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:56 |
| S17 | 9300  | orient\$5 with spher\$4                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:56 |
| S18 | 23443 | orient\$5 same spher\$4                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:56 |
| S19 | 0     | (orient\$5 same spher\$4) near<br>automat\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:59 |
| S20 | 578   | (orient\$5 same spher\$4) same<br>automat\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 10:59 |
| S21 | 14    | (orient\$5 near spher\$4) same<br>automat\$4 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:02 |
| S23 | 2     | ("3310152").URPN.                            | USPAT  | OR | ON | 2006/10/24 11:00 |
| S24 | 2     | ("3310152").URPN.                            | USPAT  | OR | ON | 2006/10/24 11:01 |
| S26 | 23    | (orient\$5 near spher\$4) same<br>automat\$7 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:04 |

## EAST Search History

|     |       |  |  |    |    |                  |
|-----|-------|--|--|----|----|------------------|
| S27 | 66214 | orient\$5 same automat\$7                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:05 |
| S28 | 26504 | orient\$5 with automat\$7                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:05 |
| S29 | 3868  | orient\$5 near automat\$7                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:05 |
| S30 | 1085  | orient\$5 adj automat\$7                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:05 |
| S31 | 32    | (orient\$5 adj automat\$7) and<br>sphere\$4          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:07 |
| S32 | 161   | (orient\$5 near automat\$7) and<br>sphere\$4         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:07 |
| S33 | 129   | (orient\$5 near automat\$7) and<br>sphere\$4 not S31 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 11:08 |

## EAST Search History

|     |         |   |  |    |    |                  |
|-----|---------|---|--|----|----|------------------|
| S35 | 14      | US-6630998-\$.DID. OR<br>US-6608687-\$.DID. OR<br>US-6462303-\$.DID. OR<br>US-6450082-\$.DID. OR<br>US-6462812-\$.DID. OR<br>US-6031933-\$.DID. OR<br>US-5903341-\$.DID. OR<br>US-5777244-\$.DID. OR<br>US-5703687-\$.DID. OR<br>US-5611723-\$.DID. OR<br>US-5604550-\$.DID. OR<br>US-5223679-\$.DID. OR<br>US-4445628-\$.DID. OR<br>US-4240620-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/10/24 11:42 |
| S36 | 1       | 1997-052113.NRAN.   | DERWENT  | OR | ON | 2006/10/24 13:10 |
| S37 | 3114    | carlson.in.   | DERWENT  | OR | ON | 2006/10/24 13:10 |
| S38 | 54      | carlson-ralph.in. or carlson-r.in.  | DERWENT  | OR | ON | 2006/10/24 13:12 |
| S39 | 12      | S37 and spher\$4  | DERWENT  | OR | ON | 2006/10/24 13:13 |
| S40 | 98      | S37 and orient\$5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:32 |
| S41 | 2944394 | automat\$6  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:33 |
| S42 | 201844  | sphere\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:33 |
| S43 | 2921066 | (orient\$5 or align\$4)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:34 |

## EAST Search History

|     |        |                        |  |    |    |                  |
|-----|--------|------------------------|--|----|----|------------------|
| S44 | 703925 | S41 and S43            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:34 |
| S45 | 20326  | S41 and S42 and S43    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:35 |
| S46 | 4381   | S41 and (S42 same S43) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:35 |
| S47 | 1687   | S41 and (S42 with S43) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:36 |
| S48 | 179    | S41 and (S42 near S43) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:36 |
| S49 | 96     | S41 and (S42 adj S43)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 13:36 |
| S50 | 2570   | acushnet               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 14:32 |

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|     |     |   |  |    |    |                  |
|-----|-----|---|--|----|----|------------------|
| S51 | 23  | acushnet and carlson  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/24 14:32 |
| S52 | 10  | US-6798925-\$.DID. OR<br>US-6798515-\$.DID. OR<br>US-6768509-\$.DID. OR<br>US-6594623-\$.DID. OR<br>US-6061126-\$.DID. OR<br>US-5966213-\$.DID. OR<br>US-5467192-\$.DID. OR<br>US-4555635-\$.DID. OR<br>US-4246606-\$.DID. OR<br>US-6262803-\$.DID. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/10/24 14:35 |
| S53 | 4   | US-5611723-\$.DID. OR<br>US-5632205-\$.DID. OR<br>US-6031933-\$.DID. OR<br>US-6630998-\$.DID.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/10/24 16:05 |
| S54 | 1   | 1997-052113.NRAN.   | DERWENT  | OR | ON | 2006/10/24 16:30 |
| S55 | 16  | "5703687"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/25 13:04 |
| S56 | 935 | 356/614   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/25 13:07 |
| S57 | 413 | 356/614 and orient\$6   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/25 13:07 |
| S58 | 107 | 356/614 and orient\$6 and spher\$4  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/25 13:07 |

## EAST Search History

|     |      |   |  |    |    |                  |
|-----|------|---|--|----|----|------------------|
| S59 | 2    | "6839138"                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/25 14:29 |
| S60 | 0    | "700.CLAS" and orientation                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/01 15:41 |
| S61 | 0    | "700.CLAS" and orient                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/01 15:41 |
| S62 | 0    | "700.CLAS"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/01 15:41 |
| S63 | 4472 | "700".CLAS. and orientation               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/01 15:41 |
| S64 | 296  | "700".CLAS. and orientation and sphere    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/01 15:42 |
| S65 | 79   | "700".CLAS. and (orientation same sphere) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/01 15:43 |



## EAST Search History

|     |      |  |  |    |    |                  |
|-----|------|--|--|----|----|------------------|
| S66 | 16   | ("5395174"   "5580318"   "5632205"   "5703687"   "5755335"   "5777244"   "5848189"   "5859923"   "6031933"   "6061086"   "6319563").PN. OR ("6462812").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/11/02 11:42 |
| S67 | 19   | ("20030095178"   "4240620"   "4445628"   "5223679"   "5604550"   "5611723"   "5703687"   "5734337"   "5777244"   "5903341"   "5912467"   "6031933"   "6450082"   "6462303"   "6462812"   "6499333"   "6608687"   "6630998"   "6768509").PN. OR ("7055363").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/11/02 11:42 |
| S68 | 18   | ("1339569"   "1527691"   "1921571"   "1999647"   "20020097280"   "20020134257"   "5123345"   "5632205"   "5832819"   "6245386"   "6295737"   "6418843"   "6462812"   "6538767").PN. OR ("6923115").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/11/02 12:05 |
| S69 | 23   | ("4745857"   "4796201"   "4836119"   "4844947"   "4871252"   "4974511"   "5012116"   "5227985"   "5319577"   "5345309"   "5389476"   "5479008"   "5561756").PN. OR ("5632205").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/11/02 12:32 |
| S70 | 23   | ("4745857"   "4796201"   "4836119"   "4844947"   "4871252"   "4974511"   "5012116"   "5227985"   "5319577"   "5345309"   "5389476"   "5479008"   "5561756").PN. OR ("5632205").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/11/02 12:33 |
| S72 | 1283 | (mirrors with camera) and (replace or reduce or substitute) and (multiple with single)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/06 13:32 |
| S73 | 84   | ((mirrors with camera) same (multiple with single)) and (replace or reduce or substitute)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/06 13:33 |

## EAST Search History

|     |       |  |  |    |    |                  |
|-----|-------|--|--|----|----|------------------|
| S74 | 71    | ("3246297"   "3500063"   "3749923"   "3791741"   "3891324"   "3939984"   "3956629"   "3983403"   "3987902"   "4002823"   "4011155"   "4053056"   "4188544"   "4245243"   "4268168"   "4277176"   "4367045"   "4367405"   "4454542"   "4500203"   "4509075"   "4518862"   "4546384"   "4630225"   "4639592"   "4734766"   "4759074").PN. OR ("4972494").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2006/11/06 13:41 |
| S75 | 29430 | orient\$5 and compar\$4 and imag\$3 and spher\$4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 08:05 |
| S77 | 1381  | orient\$5 and spher\$4 and virtual and (compar\$4 with imag\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 08:12 |
| S79 | 11    | orient\$5 same spher\$4 same (virtual or stored) same (compar\$4 with imag\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 08:14 |
| S80 | 81    | orient\$5 same spher\$4 same (compar\$4 with imag\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 08:30 |
| S81 | 104   | (orient\$5 and spher\$4) same (compar\$4 with imag\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 08:31 |
| S82 | 0     | ("2005/0200837").URPN.   | USPAT  | OR | ON | 2006/11/08 08:32 |

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|     |         |   |  |    |    |                  |
|-----|---------|---|--|----|----|------------------|
| S86 | 385     | 356/237.1.ccls. and (imag\$3 with compar\$4)                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 12:24 |
| S87 | 2466    | 356/237.1.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 11:08 |
| S88 | 97      | (conver\$4 same (imag\$3 with compar\$4)) and sphere and virtual    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 11:13 |
| S90 | 19867   | "382".clas. and (imag\$3 with compar\$4)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 12:25 |
| S92 | 640     | "382".clas. and (imag\$3 with compar\$4) and spher\$4 and orient\$5 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/08 12:25 |
| S93 | 2090461 | Ball Grid Arrays  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 10:12 |
| S94 | 24543   | Ball adj grid adj Array   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 10:12 |

## EAST Search History

|          |     |  |  |    |    |                  |
|----------|-----|--|--|----|----|------------------|
| S95      | 210 | ((Ball adj grid adj Array) or BGA) and "382".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 10:13 |
| S96      | 0   | "09633756".ap.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 10:45 |
| S97      | 2   | "09633756"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:35 |
| S98      | 102 | S95 and orient\$5  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 11:43 |
| S99      | 309 | (reference or template or compare\$4) with image same orient\$5 same (spher\$4 or ball or golfball)    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 12:15 |
| S10<br>0 | 119 | compar\$4 same (virtual or digital or digitized or electronic) same image same spher\$4 same reference | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/11/09 12:22 |
| S10<br>1 | 3   | ("6630998").URPN.  | USPAT  | OR | ON | 2006/11/09 14:08 |

## EAST Search History

|          |    |  |                              |    |    |                  |
|----------|----|--|------------------------------|----|----|------------------|
| S10<br>2 | 57 | ("2278800"   "2701055"  <br>"2778497"   "3565248"   "3675015"<br>  "3930063"   "3940952"  <br>"4110047"   "4259013"   "4289032"<br>  "4358202"   "4398825"  <br>"4469442"   "4469713"   "4641966"<br>  "4726898"   "4814198"  <br>"4969361"   "5118194"   "5166985"<br>  "5278635"   "5286532"  <br>"5395174"   "5443642"   "5457326"<br>  "5542680"   "5580318"  <br>"5602646"   "5632205"   "5651741"<br>  "5658619"   "5667840"  <br>"5703687"   "5732147"   "5755335"<br>  "5777244"   "5848189"  <br>"5859923"   "5901854"   "5943125"<br>  "5960098"   "5966213"  <br>"5985370"   "6031933"   "6061086"<br>  "6201892"   "6226416"  <br>"6248804"   "6271520"   "6319563"<br>  "6462812").PN. OR ("6630998").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/11/09 14:08 |
| S10<br>3 | 4  | ("6226416").URPN.  | USPAT                        | OR | ON | 2006/11/09 14:13 |
| S10<br>4 | 13 | ("4745857"   "4796201"  <br>"4836119"   "4844947"   "4871252"<br>  "4974511"   "5012116"  <br>"5227985"   "5319577"   "5345309"<br>  "5389476"   "5479008"  <br>"5561756").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/11/09 14:19 |
| S10<br>5 | 57 | ("2278800"   "2701055"  <br>"2778497"   "3565248"   "3675015"<br>  "3930063"   "3940952"  <br>"4110047"   "4259013"   "4289032"<br>  "4358202"   "4398825"  <br>"4469442"   "4469713"   "4641966"<br>  "4726898"   "4814198"  <br>"4969361"   "5118194"   "5166985"<br>  "5278635"   "5286532"  <br>"5395174"   "5443642"   "5457326"<br>  "5542680"   "5580318"  <br>"5602646"   "5632205"   "5651741"<br>  "5658619"   "5667840"  <br>"5703687"   "5732147"   "5755335"<br>  "5777244"   "5848189"  <br>"5859923"   "5901854"   "5943125"<br>  "5960098"   "5966213"  <br>"5985370"   "6031933"   "6061086"<br>  "6201892"   "6226416"  <br>"6248804"   "6271520"   "6319563"<br>  "6462812").PN. OR ("6630998").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/11/13 12:52 |